JOB OPENING AT IRB BARCELONA

POSTDOCTORAL FELLOW’ (ref. PD /20/22)

IRB Barcelona is a world-class research centre devoted to understanding fundamental questions about human health and disease. It was founded in October 2005 by the Government of Catalonia (Generalitat de Catalunya) and the University of Barcelona (UB), and is located at the Barcelona Science Park (Parc Científico de Barcelona).

The Institute’s missions include conducting multidisciplinary research of excellence at the unique interface between biology, chemistry and medicine, providing high-level training in the biomedical sciences to staff, students and visitors, driving innovation through active technology transfer to the benefit of society, and actively participating in an open dialogue with the public through a series of engagement and education activities.

IRB Barcelona seeks

A motivated Postdoctoral Researcher for the Molecular Modeling and Bioinformatic Group of the Institute for Research in Biomedicine (IRB Barcelona), under the framework of the “Instituto de Salud Carlos III” and funded by SARS-CoV-2 Inhibition, Host Selection and Next-Move Prediction Through High-Performance Computing” del Instituto de Salud Carlos III Expediente COV20/00373.

DUTIES

We are looking for a candidate to work on theoretical computational studies of macromolecules, involving programming new algorithms and scientific workflows, using all kinds of classical and quantum mechanics methods (MD, QM, QM/MM), and applying bio-statistics with trajectory data.

EXPERIENCE, KNOWLEDGE, SKILLS & SELECTION CRITERIA

Must Have - Required

- PhD in Chemistry, Physics, BioChemistry, BioTechnology or similar.
- Experience in computational Molecular Dynamics (MD) technique: simulations and analysis (Amber, GROMACS) and visualization (VMD, PyMol).
- Experience in computational Quantum Mechanics (QM) technique: simulations and analysis (Gaussian, GAMESS).
- Experience in High Performance Computing infrastructures: workload managers (Slurm), remote connections (ssh), file transfer (scp, rsync).
- Experience in shell and scripting languages (Bash, CSH, Perl, Python).
- Fluent English and good teamwork skills.
- Excellent Linux OS skills.

Desirable

- Skills on membrane proteins simulation
- Skills on biomolecular workflow development and High Throughput (HT) techniques.
- Participation on international conferences.
WORKING CONDITIONS & ENTITLEMENTS

- **Working conditions**: Employed in compliance with Spanish legislation and regulations under a full-time contract. Employees receive the benefits of the Spanish Social Security system covering sickness, maternity/paternity leaves and injuries at work. Salary commensurate with experience and qualifications.

- **International Environment**: The opportunity to join a prestigious international research institution and become a member of an established research group Molecular Modeling and Bioinformatic Unit

- **Continuous training** in a high-quality environment.

HOW TO APPLY & SELECTION PROCESS

Applications for the above opening should include CV and motivation letter and should be sent by e-mail to: irbjobs@irbbarcelona.org Reference: PD/20/22

- **Deadline for applications**: 20/09/2020
  When the applicants do not fit the requirements, the deadline will be able to be extended.

- **Number of positions available**: 1

- **Selection process**
  - **Pre-selection**: Will be based on CV, motivation letter, experience, management of research and innovation.
  - **Interviews**: Short-listed candidates will be interviewed.
  - **Offered Position**: Job Offer will be sent to the successful candidate after the interview.

For more information please visit our website at: [www.irbbarcelona.org](http://www.irbbarcelona.org)

*Note: The strengths and weaknesses of the applications will be provided upon request.*

*If you, as an applicant, have any suggestion or wish to make a complaint regarding the selection process, please contact us at the following email address: irbrecruitment.suggestions@irbbarcelona.org* You will receive a response within a month.